

SEQUENCE LISTING

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<120> COMPOUNDS AND METHODS FOR MODULATING ACTIVATION OF
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<130> 860098.427

<140> US

<141> 1998-12-10

<160> 30

<170> PatentIn Ver. 2.0

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<211> 317

<212> PRT

<213> Homo sapiens

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Gly Leu Asp Ser Met Lys Asp Glu Glu Tyr Glu Gln Met Val Lys Glu
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Leu Gln Glu Ile Arg Leu Glu Pro Gln Glu Val Pro Arg Gly Ser Glu
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Pro Trp Lys Gln Gln Leu Thr Glu Asp Gly Asp Ser Phe Leu His Leu
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Ala Ile Ile His Glu Glu Lys Ala Leu Thr Met Glu Val Ile Arg Gln
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Val Lys Gly Asp Leu Ala Phe Leu Asn Phe Gln Asn Asn Leu Gln Gln
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Thr Pro Leu His Leu Ala Val Ile Thr Asn Gln Pro Glu Ile Ala Glu
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Ala Leu Leu Gly Ala Gly Cys Asp Pro Glu Leu Arg Asp Phe Arg Gly
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Asn Thr Pro Leu His Leu Ala Cys Glu Gln Gly Cys Leu Ala Ser Val
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Gly Val Leu Thr Gln Ser Cys Thr Thr Pro His Leu His Ser Ile Leu
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Lys Ala Thr Asn Tyr Asn Gly His Thr Cys Leu His Leu Ala Ser Ile
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His Gly Tyr Leu Gly Ile Val Glu Leu Leu Val Ser Leu Gly Ala Asp
195 200 205

Val Asn Ala Gln Glu Pro Cys Asn Gly Arg Thr Ala Leu His Leu Ala
210 215 220

Val Asp Leu Gln Asn Pro Asp Leu Val Ser Leu Leu Leu Lys Cys Gly
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Ala Asp Val Asn Arg Val Thr Tyr Gln Gly Tyr Ser Pro Tyr Gln Leu
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Thr Trp Gly Arg Pro Ser Thr Arg Ile Gln Gln Gln Leu Gly Gln Leu
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Thr Leu Glu Asn Leu Gln Met Leu Pro Glu Ser Glu Asp Glu Glu Ser
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Gly Pro Gly Leu Gly Ala Glu Leu Gly Pro Glu Leu Ser Trp Ala Pro
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Leu Val Phe Gly Tyr Val Thr Glu Asp Gly Asp Thr Ala Leu His Leu
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Ala Val Ile His Gln His Glu Pro Phe Leu Asp Phe Leu Leu Gly Phe
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Ser Ala Gly His Glu Tyr Leu Asp Leu Gln Asn Asp Leu Gly Gln Thr
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Ala Leu His Leu Ala Ala Ile Leu Gly Glu Ala Ser Thr Val Glu Lys
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Leu Tyr Ala Ala Gly Ala Gly Val Leu Val Ala Glu Arg Gly Gly His
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Thr Ala Leu His Leu Ala Cys Arg Val Arg Ala His Thr Cys Ala Cys
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Val Leu Leu Gln Pro Arg Pro Ser His Pro Arg Asp Ala Ser Asp Thr
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Tyr Leu Thr Gln Ser Gln Asp Cys Thr Pro Asp Thr Ser His Ala Pro
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Ala Ala Val Asp Ser Gln Pro Asn Pro Glu Asn Glu Glu Glu Pro Arg
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Thr Pro Leu His Val Ala Val Ile His Lys Asp Ala Glu Met Val Arg
210 215 220

Leu Leu Arg Asp Ala Gly Ala Asp Leu Asn Lys Pro Glu Pro Thr Cys
225 230 235 240

Gly Arg Thr Pro Leu His Leu Ala Val Glu Ala Gln Ala Ala Ser Val
245 250 255

Leu Glu Leu Leu Leu Lys Ala Gly Ala Asp Pro Thr Ala Arg Met Tyr
260 265 270

Gly Gly Arg Thr Pro Leu Gly Ser Ala Leu Leu Arg Pro Asn Pro Ile
275 280 285

Leu Ala Arg Leu Leu Arg Ala His Gly Ala Pro Glu Pro Glu Asp Glu
290 295 300

Asp Asp Lys Leu Ser Pro Cys Ser Ser Ser Gly Ser Asp Ser Asp Ser
305 310 315 320

Asp Asn Arg Asp Glu Gly Asp Glu Tyr Asp Asp Ile Val Val His Ser
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Pro Asp Asp Pro Asn Pro Ala
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<212> PRT
<213> Homo sapiens

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<210> 6
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<213> Homo sapiens

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Cys Asp Asp Arg His Asp Ser Gly Leu Asp Ser Met
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<213> Homo sapiens

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Cys Asp Asp Arg His Asp Ser Gly Leu Asp Ser Met Lys Asp Glu Glu
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Lys Asp Glu Glu
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Ser Met Lys Asp Glu Glu
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<210> 10

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<212> PRT

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Ile Gly Arg Arg Gly Lys Val Glu Gln Leu Ser Pro Glu Glu Glu Glu
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Lys Arg Arg

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<211> 22

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Ala Met Lys Asp Glu Glu
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<212> PRT

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Pro Asp Tyr Ala Met Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Met Phe
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Gln Ala Ala Glu Arg Pro Gln Glu Trp Ala Met Glu Gly Pro Arg Asp
 35 40 45

Gly Leu Lys Lys Glu Arg Leu Leu Asp Asp Arg His Asp Ser Gly Leu
 50 55 60

Asp Ser Met Lys Asp Glu Glu Tyr Glu Gln Met Val Lys Glu Leu Gln
 65 70 75 80

Glu Ile Arg Leu Glu Pro Gln Glu Val Pro Arg Gly Ser Glu Pro Trp
 85 90 95
 Lys Gln Gln Leu Thr Glu Asp Gly Asp Ser Phe Leu His Leu Ala Ile
 100 105 110
 Ile His Glu Glu Lys Ala Leu Thr Met Glu Val Ile Arg Gln Val Lys
 115 120 125
 Gly Asp Leu Ala Phe Leu Asn Phe Gln Asn Asn Leu Gln Gln Thr Pro
 130 135 140
 Leu His Leu Ala Val Ile Thr Asn Gln Pro Glu Ile Ala Glu Ala Leu
 145 150 155 160
 Leu Gly Ala Gly Cys Asp Pro Glu Leu Arg Asp Phe Arg Gly Asn Thr
 165 170 175
 Pro Leu His Leu Ala Cys Glu Gln Gly Cys Leu Ala Ser Val Gly Val
 180 185 190
 Leu Thr Gln Ser Cys Thr Thr Pro His Leu His Ser Ile Leu Lys Ala
 195 200 205
 Thr Asn Tyr Asn Gly His Thr Cys Leu His Leu Ala Ser Ile His Gly
 210 215 220
 Tyr Leu Gly Ile Val Glu Leu Leu Val Ser Leu Gly Ala Asp Val Asn
 225 230 235 240
 Ala Gln Glu Pro Cys Asn Gly Arg Thr Ala Leu His Leu Ala Val Asp
 245 250 255
 Leu Gln Asn Pro Asp Leu Val Ser Leu Leu Leu Lys Cys Gly Ala Asp
 260 265 270
 Val Asn Arg Val Thr Tyr Gln Gly Tyr Ser Pro Tyr Gln Leu Thr Trp
 275 280 285
 Gly Arg Pro Ser Thr Arg Ile Gln Gln Gln Leu Gly Gln Leu Thr Leu
 290 295 300
 Glu Asn Leu Gln Met Leu Pro Glu Ser Glu Asp Glu Glu Ser Tyr Asp
 305 310 315 320
 Thr Glu Ser Glu Phe Thr Glu Phe Thr Glu Asp Glu Leu Pro Tyr Asp
 325 330 335
 Asp Cys Val Phe Gly Gly Gln Arg Leu Thr Leu
 340 345

<210> 13
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<213> Homo sapiens

<400> 13

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Met Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Met Tyr Pro Tyr Asp Val
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Pro Asp Tyr Ala Met Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Met Phe
      20             25             30

Gln Ala Ala Glu Arg Pro Gln Glu Trp Ala Met Glu Gly Pro Arg Asp
      35             40             45

Gly Leu Lys Lys Glu Arg Leu Leu Asp Asp Arg His Asp Ala Gly Leu
      50             55             60

Asp Ala Met Lys Asp Glu Glu Tyr Glu Gln Met Val Lys Glu Leu Gln
      65             70             75             80

Glu Ile Arg Leu Glu Pro Gln Glu Val Pro Arg Gly Ser Glu Pro Trp
      85             90             95

Lys Gln Gln Leu Thr Glu Asp Gly Asp Ser Phe Leu His Leu Ala Ile
      100            105            110

Ile His Glu Glu Lys Ala Leu Thr Met Glu Val Ile Arg Gln Val Lys
      115            120            125

Gly Asp Leu Ala Phe Leu Asn Phe Gln Asn Asn Leu Gln Gln Thr Pro
      130            135            140

Leu His Leu Ala Val Ile Thr Asn Gln Pro Glu Ile Ala Glu Ala Leu
      145            150            155            160

Leu Gly Ala Gly Cys Asp Pro Glu Leu Arg Asp Phe Arg Gly Asn Thr
      165            170            175

Pro Leu His Leu Ala Cys Glu Gln Gly Cys Leu Ala Ser Val Gly Val
      180            185            190

Leu Thr Gln Ser Cys Thr Thr Pro His Leu His Ser Ile Leu Lys Ala
      195            200            205

Thr Asn Tyr Asn Gly His Thr Cys Leu His Leu Ala Ser Ile His Gly
      210            215            220

Tyr Leu Gly Ile Val Glu Leu Leu Val Ser Leu Gly Ala Asp Val Asn
      225            230            235            240

Ala Gln Glu Pro Cys Asn Gly Arg Thr Ala Leu His Leu Ala Val Asp
      245            250            255

Leu Gln Asn Pro Asp Leu Val Ser Leu Leu Leu Lys Cys Gly Ala Asp
      260            265            270

Val Asn Arg Val Thr Tyr Gln Gly Tyr Ser Pro Tyr Gln Leu Thr Trp

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275 280 285
 Gly Arg Pro Ser Thr Arg Ile Gln Gln Gln Leu Gly Gln Leu Thr Leu
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 Glu Asn Leu Gln Met Leu Pro Glu Ser Glu Asp Glu Glu Ser Tyr Asp
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 Gly Leu Gly Ala Glu Leu Gly Pro Glu Leu Ser Trp Ala Pro Leu Val
 65 70 75 80
 Phe Gly Tyr Val Thr Glu Asp Gly Asp Thr Ala Leu His Leu Ala Val
 85 90 95
 Ile His Gln His Glu Pro Phe Leu Asp Phe Leu Leu Gly Phe Ser Ala
 100 105 110
 Gly His Glu Tyr Leu Asp Leu Gln Asn Asp Leu Gly Gln Thr Ala Leu
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 His Leu Ala Ala Ile Leu Gly Glu Ala Ser Thr Val Glu Lys Leu Tyr
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 Ala Ala Gly Ala Gly Val Leu Val Ala Glu Arg Gly Gly His Thr Ala
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 165 170 175
 Leu Gln Pro Arg Pro Ser His Pro Arg Asp Ala Ser Asp Thr Tyr Leu

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Thr Gln Ser Gln Asp Cys Thr Pro Asp Thr Ser His Ala Pro Ala Ala 195 200 205		
Val Asp Ser Gln Pro Asn Pro Glu Asn Glu Glu Glu Pro Arg Asp Glu 210 215 220		
Asp Trp Arg Leu Gln Leu Glu Ala Glu Asn Tyr Asp Gly His Thr Pro 225 230 235 240		
Leu His Val Ala Val Ile His Lys Asp Ala Glu Met Val Arg Leu Leu 245 250 255		
Arg Asp Ala Gly Ala Asp Leu Asn Lys Pro Glu Pro Thr Cys Gly Arg 260 265 270		
Thr Pro Leu His Leu Ala Val Glu Ala Gln Ala Ala Ser Val Leu Glu 275 280 285		
Leu Leu Leu Lys Ala Gly Ala Asp Pro Thr Ala Arg Met Tyr Gly Gly 290 295 300		
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Arg Leu Leu Arg Ala His Gly Ala Pro Glu Pro Glu Asp Glu Asp Asp 325 330 335		
Lys Leu Ser Pro Cys Ser Ser Ser Gly Ser Asp Ser Asp Ser Asp Asn 340 345 350		
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<213> Homo sapiens

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<210> 16

<211> 542

<212> PRT

<213> Homo sapiens

<400> 16

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Met Glu Pro Asp Ser Val Ile Glu Asp Lys Thr Ile Glu Leu Met Cys
  1             5             10             15

```

```

Ser Val Pro Arg Ser Leu Trp Leu Gly Cys Ala Asn Leu Val Glu Ser
          20             25             30

```

```

Met Cys Ala Leu Ser Cys Leu Gln Ser Met Pro Ser Val Arg Cys Leu
          35             40             45

```

```

Gln Ile Ser Asn Gly Thr Ser Ser Val Ile Val Ser Arg Lys Arg Pro
          50             55             60

```

```

Ser Glu Gly Asn Tyr Gln Lys Glu Lys Asp Leu Cys Ile Lys Tyr Phe
          65             70             75             80

```

```

Asp Gln Trp Ser Glu Ser Asp Gln Val Glu Phe Val Glu His Leu Ile
          85             90             95

```

```

Ser Arg Met Cys His Tyr Gln His Gly His Ile Asn Ser Tyr Leu Lys
          100            105            110

```

```

Pro Met Leu Gln Arg Asp Phe Ile Thr Ala Leu Pro Glu Gln Gly Leu
          115            120            125

```

```

Asp His Ile Ala Glu Asn Ile Leu Ser Tyr Leu Asp Ala Arg Ser Leu
          130            135            140

```

```

Cys Ala Ala Glu Leu Val Cys Lys Glu Trp Gln Arg Val Ile Ser Glu
          145            150            155            160

```

```

Gly Met Leu Trp Lys Lys Leu Ile Glu Arg Met Val Arg Thr Asp Pro
          165            170            175

```

```

Leu Trp Lys Gly Leu Ser Glu Arg Arg Gly Trp Asp Gln Tyr Leu Phe
          180            185            190

```

```

Lys Asn Arg Pro Thr Asp Gly Pro Pro Asn Ser Phe Tyr Arg Ser Leu
          195            200            205

```

Tyr Pro Lys Ile Ile Gln Asp Ile Glu Thr Ile Glu Ser Asn Trp Arg
 210 215 220
 Cys Gly Arg His Asn Leu Gln Arg Ile Gln Cys Arg Ser Glu Asn Ser
 225 230 235 240
 Lys Gly Val Tyr Cys Leu Gln Tyr Asp Asp Glu Lys Ile Ile Ser Gly
 245 250 255
 Leu Arg Asp Asn Ser Ile Lys Ile Trp Asp Lys Thr Ser Leu Glu Cys
 260 265 270
 Leu Lys Val Leu Thr Gly His Thr Gly Ser Val Leu Cys Leu Gln Tyr
 275 280 285
 Asp Glu Arg Val Ile Val Thr Gly Ser Ser Asp Ser Thr Val Arg Val
 290 295 300
 Trp Asp Val Asn Thr Gly Glu Val Leu Asn Thr Leu Ile His His Asn
 305 310 315 320
 Glu Ala Val Leu His Leu Arg Phe Ser Asn Gly Leu Met Val Thr Cys
 325 330 335
 Ser Lys Asp Arg Ser Ile Ala Val Trp Asp Met Ala Ser Ala Thr Asp
 340 345 350
 Ile Thr Leu Arg Arg Val Leu Val Gly His Arg Ala Ala Val Asn Val
 355 360 365
 Val Asp Phe Asp Asp Lys Tyr Ile Val Ser Ala Ser Gly Asp Arg Thr
 370 375 380
 Ile Lys Val Trp Ser Thr Ser Thr Cys Glu Phe Val Arg Thr Leu Asn
 385 390 395 400
 Gly His Lys Arg Gly Ile Ala Cys Leu Gln Tyr Arg Asp Arg Leu Val
 405 410 415
 Val Ser Gly Ser Ser Asp Asn Thr Ile Arg Leu Trp Asp Ile Glu Cys
 420 425 430
 Gly Ala Cys Leu Arg Val Leu Glu Gly His Glu Glu Leu Val Arg Cys
 435 440 445
 Ile Arg Phe Asp Asn Lys Arg Ile Val Ser Gly Ala Tyr Asp Gly Lys
 450 455 460
 Ile Lys Val Trp Asp Leu Gln Ala Ala Leu Asp Pro Arg Ala Pro Ala
 465 470 475 480
 Ser Thr Leu Cys Leu Arg Thr Leu Val Glu His Ser Gly Arg Val Phe
 485 490 495
 Arg Leu Gln Phe Asp Glu Phe Gln Ile Ile Ser Ser Ser His Asp Asp

500	505	510
Thr Ile Leu Ile Trp Asp Phe Leu Asn Val Pro Pro Ser Ala Gln Asn		
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Glu Thr Arg Ser Pro Ser Arg Thr Tyr Thr Tyr Ile Ser Arg		
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 <212> DNA
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<400> 17

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<210> 18
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<213> Homo sapiens

<400> 18

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Ile	Ile	Pro	Glu	Lys	Asn	Ser	Leu	Arg	Gln	Thr	Tyr	Asn	Ser	Cys	Ala	35	40	45	
Arg	Leu	Cys	Leu	Asn	Gln	Glu	Thr	Val	Cys	Leu	Ala	Ser	Thr	Ala	Met	50	55	60	
Lys	Thr	Glu	Asn	Cys	Val	Ala	Lys	Thr	Lys	Leu	Ala	Asn	Gly	Thr	Ser	65	70	75	80
Ser	Met	Ile	Val	Pro	Lys	Gln	Arg	Lys	Leu	Ser	Ala	Ser	Tyr	Glu	Lys	85	90	95	
Glu	Lys	Glu	Leu	Cys	Val	Lys	Tyr	Phe	Glu	Gln	Trp	Ser	Glu	Ser	Asp	100	105	110	
Gln	Val	Glu	Phe	Val	Glu	His	Leu	Ile	Ser	Gln	Met	Cys	His	Tyr	Gln	115	120	125	
His	Gly	His	Ile	Asn	Ser	Tyr	Leu	Lys	Pro	Met	Leu	Gln	Arg	Asp	Phe	130	135	140	
Ile	Thr	Ala	Leu	Pro	Ala	Arg	Gly	Leu	Asp	His	Ile	Ala	Glu	Asn	Ile	145	150	155	160
Leu	Ser	Tyr	Leu	Asp	Ala	Lys	Ser	Leu	Cys	Ala	Ala	Glu	Leu	Val	Cys	165	170	175	
Lys	Glu	Trp	Tyr	Arg	Val	Thr	Ser	Asp	Gly	Met	Leu	Trp	Lys	Lys	Leu	180	185	190	
Ile	Glu	Arg	Met	Val	Arg	Thr	Asp	Ser	Leu	Trp	Arg	Gly	Leu	Ala	Glu	195	200	205	
Arg	Arg	Gly	Trp	Gly	Gln	Tyr	Leu	Phe	Lys	Asn	Lys	Pro	Pro	Asp	Gly	210	215	220	
Asn	Ala	Pro	Pro	Asn	Ser	Phe	Tyr	Arg	Ala	Leu	Tyr	Pro	Lys	Ile	Ile	225	230	235	240
Gln	Asp	Ile	Glu	Thr	Ile	Glu	Ser	Asn	Trp	Arg	Cys	Gly	Arg	His	Ser	245	250	255	
Leu	Gln	Arg	Ile	His	Cys	Arg	Ser	Glu	Thr	Ser	Lys	Gly	Val	Tyr	Cys	260	265	270	
Leu	Gln	Tyr	Asp	Asp	Gln	Lys	Ile	Val	Ser	Gly	Leu	Arg	Asp	Asn	Thr				

275					280					285					
Ile	Lys	Ile	Trp	Asp	Lys	Asn	Thr	Leu	Glu	Cys	Lys	Arg	Ile	Leu	Thr
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Gly	His	Thr	Gly	Ser	Val	Leu	Cys	Leu	Gln	Tyr	Asp	Glu	Arg	Val	Ile
305					310					315					320
Ile	Thr	Gly	Ser	Ser	Asp	Ser	Thr	Val	Arg	Val	Trp	Asp	Val	Asn	Thr
					325				330					335	
Gly	Glu	Met	Leu	Asn	Thr	Leu	Ile	His	His	Cys	Glu	Ala	Val	Leu	His
					340				345				350		
Leu	Arg	Phe	Asn	Asn	Gly	Met	Met	Val	Thr	Cys	Ser	Lys	Asp	Arg	Ser
					355				360				365		
Ile	Ala	Val	Trp	Asp	Met	Ala	Ser	Pro	Thr	Asp	Ile	Thr	Leu	Arg	Arg
					370				375				380		
Val	Leu	Val	Gly	His	Arg	Ala	Ala	Val	Asn	Val	Val	Asp	Phe	Asp	Asp
385					390				395						400
Lys	Tyr	Ile	Val	Ser	Ala	Ser	Gly	Asp	Arg	Thr	Ile	Lys	Val	Trp	Asn
					405				410					415	
Thr	Ser	Thr	Cys	Glu	Phe	Val	Arg	Thr	Leu	Asn	Gly	His	Lys	Arg	Gly
					420				425					430	
Ile	Ala	Cys	Leu	Gln	Tyr	Arg	Asp	Arg	Leu	Val	Val	Ser	Gly	Ser	Ser
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Val	Leu	Glu	Gly	His	Glu	Glu	Leu	Val	Arg	Cys	Ile	Arg	Phe	Asp	Asn
465					470				475						480
Lys	Arg	Ile	Val	Ser	Gly	Ala	Tyr	Asp	Gly	Lys	Ile	Lys	Val	Trp	Asp
					485				490					495	
Leu	Val	Ala	Ala	Leu	Asp	Pro	Arg	Ala	Pro	Ala	Gly	Thr	Leu	Cys	Leu
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Arg	Thr	Leu	Val	Glu	His	Ser	Gly	Arg	Val	Phe	Arg	Leu	Gln	Phe	Asp
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Glu	Phe	Gln	Ile	Val	Ser	Ser	Ser	His	Asp	Asp	Thr	Ile	Leu	Ile	Trp
					530				535				540		
Asp	Phe	Leu	Asn	Asp	Pro	Ala	Ala	Gln	Ala	Glu	Pro	Pro	Arg	Ser	Pro
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Ser	Arg	Thr	Tyr	Thr	Tyr	Ile	Ser	Arg							
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<210> 20
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Ser Gly Asp Arg
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Pro

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Val Val Asn Val

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Ser

<210> 25

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<212> PRT

<213> Homo sapiens

<400> 25

Leu Glu Gly His Glu Glu Leu Val Arg

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<210> 26

<211> 12

<212> PRT

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<211> 12

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